



# NTC THERMISTORS: TYPE MC65

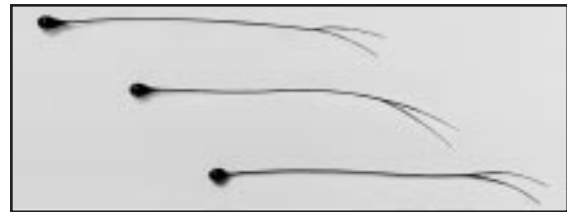
## INSULATED LEAD INTERCHANGEABLE CHIP THERMISTOR

### DESCRIPTION:

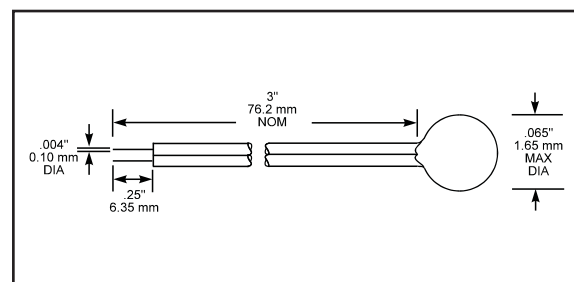
Epoxy Coated interchangeable chip thermistors with heavy isomid insulated Nickel lead-wires.

### FEATURES:

- Precision, solid state temperature sensor
- Interchangeability down to  $\pm 0.05^\circ\text{C}$
- Suitable for use over the range of  $-40^\circ\text{C}$  to  $+105^\circ\text{C}$
- High sensitivity greater than  $-4\%/^\circ\text{C}$  at  $25^\circ\text{C}$
- Suitable for temperature measurement, control and compensation
- High reliability and stability over interchangeable range
- Special tight tolerances in the clinical range for Medical applications
- Most popular R-vs-T curves are available
- Fully insulated
- Resin coated for good mechanical strength and resistance to solvents
- .004" (.1 mm) dia. heavy isomid insulated Bifilar Nickel lead-wires



### DIMENSIONS:



Select appropriate part number below for resistance and temperature tolerance desired

R <sub>25°C</sub>	MATERIAL SYSTEM	± .05°C; 35°C to 39°C	± .1°C; 35°C to 39°C	± .15°C; 35°C to 39°C
		± .075°C; 39°C to 42°C	± .15°C; 20°C to 45°C	± .2°C; 20°C to 45°C
		± .10°C; 20°C to 45°C	± .2°C; 0°C to 50°C	± .25°C; 0°C to 50°C
2252	F	MC65F232A	MC65F232B	MC65F232C
3000	F	MC65F302A	MC65F302B	MC65F302C
5000	F	MC65F502A	MC65F502B	MC65F502C
10000	F	MC65F103A	MC65F103B	MC65F103C
10000	Y	MC65Y103A	MC65Y103B	MC65Y103C
30000	H	MC65H303A	MC65H303B	MC65H303C
50000	G	MC65G503A	MC65G503B	MC65G503C
100000	Y	MC65Y104A	MC65Y104B	MC65Y104C
100000	G	MC65G104A	MC65G104B	MC65G104C

### OPTIONS:

Consult factory for availability of options:

- Other resistance values in the range of 100Ω - 100kΩ
- Other tolerances or ranges
- Other lead wires or lengths
- Non standard R-vs-T curves
- Controlled dimensions

### DATA:

#### THERMAL AND ELECTRICAL PROPERTIES:

**Dissipation constant:**.....(still air) .5 mW/°C  
(stirred oil) 4 mW/°C

**Thermal time constant:**.....(still air) 8 sec.  
(stirred oil) .5 sec.

**Maximum power at 25°C** .....25mW  
(derated from 100% at 25°C to 0% at 100°C)

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